

Cman and Sorted Array

Cman has an array of size X . Each element of array is denoted by $a[i]$. Cman loves sorted array and wants to sort this array in non-decreasing order.

There are some restriction to make this array sorted. In a single move, he can choose an arbitrary pair of integers M and N ($1 \leq M \leq N \leq X$) and can increase the value of all $a[i]$ by 1 where $M \leq i \leq N$.

You have to help him to find minimum number of moves required to sort the array in non decreasing order.

Input:

The first line contains a single integer T denoting no. of test cases.

First line of each test case contains an integer X . Next line contains X space separated integers denoting the values in array a .

Output:

For each test case print single integer denoting the answer to the problem.

Sample Input:

```
3
4
1 2 3 4
3
5 4 3
4
11 8 4 54
```

Sample Output:

```
0
2
7
```

Constraints:

```
1 ≤ T ≤ 10
1 ≤ X ≤ 10^6
1 ≤ a[i] ≤ 10^9
```